function of the hard disk, or realize the device class protocol of the ZIP disk, simulate and implement the storing function of the ZIP disk, or realize the device class protocol of the MO disk, simulate and implement the storing function of the MO disk by the semiconductor storage media module and the controller module.

<u>In the Claims</u>

Please substitute the following amended claims for those currently pending:

1. (Once Amended) A multifunction semiconductor storage device capable of hot plug and play and being removable connected to the host system through the general purpose interface, including a semiconductor storage media module (1) and a controller module (2), wherein the controller module (2) comprises a general purpose interface control module (21), a microprocessor and control module (22), said semiconductor storage device can realize the device class protocol of the floppy disk drive, simulate and implement the storing function of the floppy diskette working on the floppy disk drive, or realize the device class protocol of the CD-ROM drive, simulate and implement the storing function of the CD-ROM working on the CD-ROM drive, or realize the device class protocol of the hard disk simulate and implement the storing function of the hard disk, or realize the device class protocol of the ZIP disk, simulate and implement the storing function of the ZIP disk, or realize the device class protocol of the MO disk, simulate and implement the storing function of the MO disk by said semiconductor storage media module (1) and said controller module (2).

2

2.   A multifunction semiconductor storage device as claimed in claim 1, wherein the

semiconductor storage media module (1) ccrresponds to a storage space or can be divided into at

least two storage spaces.

3.   A multifunction semiconductor storage device as claimed in claim 1, wherein it

can be recognized, controlled and accessed by the BIOS (Basic Input and Output System) of the

host computer, the semiconductor storage media module (1) stores the boot up program of the

operating system and operating system programs, while the BIOS of the host computer is

powered up, the boot up program of the operating system and operating system programs are

loaded from the semiconductor storage media module (1) so as to boot the host computer.

4.   A multifunction semiconductor storage device as claimed in claim 1, wherein the

driver programs of the semiconductor storage device can be stored in the semiconductor storage

media module (1) so as to realize the function of storing the driver program in itself.

5.   A multifunction semiconductor storage device as claimed in claim 1, wherein

further includes a write protect switch (3) capable of offering physical protection to said

semiconductor storage media module (1) so as to prevent the contents from being overwritten or

erased, said write protect switch (3) is electrically connected to said microprocessor and control

module (22).

6.　　　　　A multifunction semiconductor storage device as claimed in claim 1, wherein further includes a LED indicator (5) comprising one or a plurality of indicator devices which can show the status of the semiconductor storage device, said LED power indicator (5) is electrically connected to the microprocessor and control module (22) electrically.

7.　　　　　A multifunction semiconductor storage device as claimed in claim 1, wherein said controller module (2) further includes a buffer module (23), said buffer module (23) is a static random access memory (SRAM) and is electrically connected to the microprocessor and control module (22).

8.　　　　　A multifunction semiconductor storage device as claimed in claim 1, wherein said semiconductor storage media module (1) has a buffer area.

9.　　　　　A multifunction semiconductor storage device as claimed in claim 1, wherein said semiconductor storage media module (1) has a special information area for storing the information relevant to said semiconductor storage device, the password and the digital signature of the user.

10.　　　　　A multifunction semiconductor storage device as claimed in claim 2, wherein each of the storage spaces of said semiconductor storage media module (1) corresponds to a storage disk.

4

11.   A multifunction semiconductor storage device as claimed in claim 10, wherein said storage disk can be a simulated floppy disk drive and floppy diskette, a simulated CD-ROM drive and a CD-ROM, a simulated hard disk, a simulate ZIP disk, a simulated MO disk, or a customized storage disk.

12.   A multifunction semiconductor storage device as claimed in claim 10, wherein further includes a storage disk selection switch (4) for selecting at least one storage disk from all storage disks, so that the selected storage disk can be recognized, controlled and accessed by the host computer.

13.   A multifunction semiconductor storage device as claimed in claim 10, wherein said storage disk supports the device class protocols such as UFI (USB Floppy Interface) protocol, SFF8020I protocol, SFF8070I protocol, SCSI Transparent Command Set protocol, Reduced Block Commands (RBC) T10 Project1240-D protocol, ZIP disk protocol and MO disk protocol.

14.   A multifunction semiconductor storage device as claimed in claim 10, wherein each of the storage disks can be divided into smaller storage spaces including the data area and the special information area, the special information contained in said special information area includes information related to the storage disk, the password and the digital signature of the user.